

Fig.1

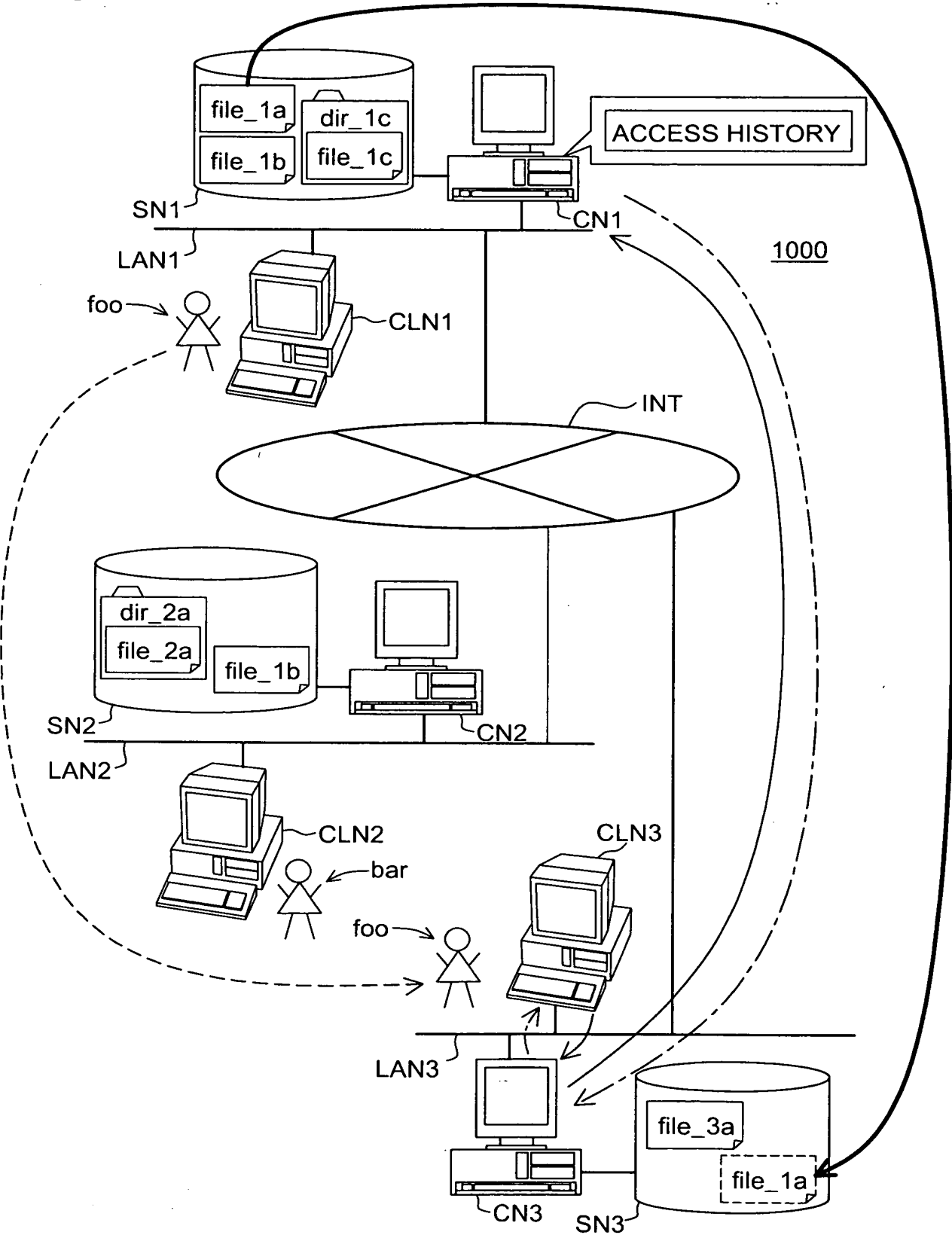


Fig.2

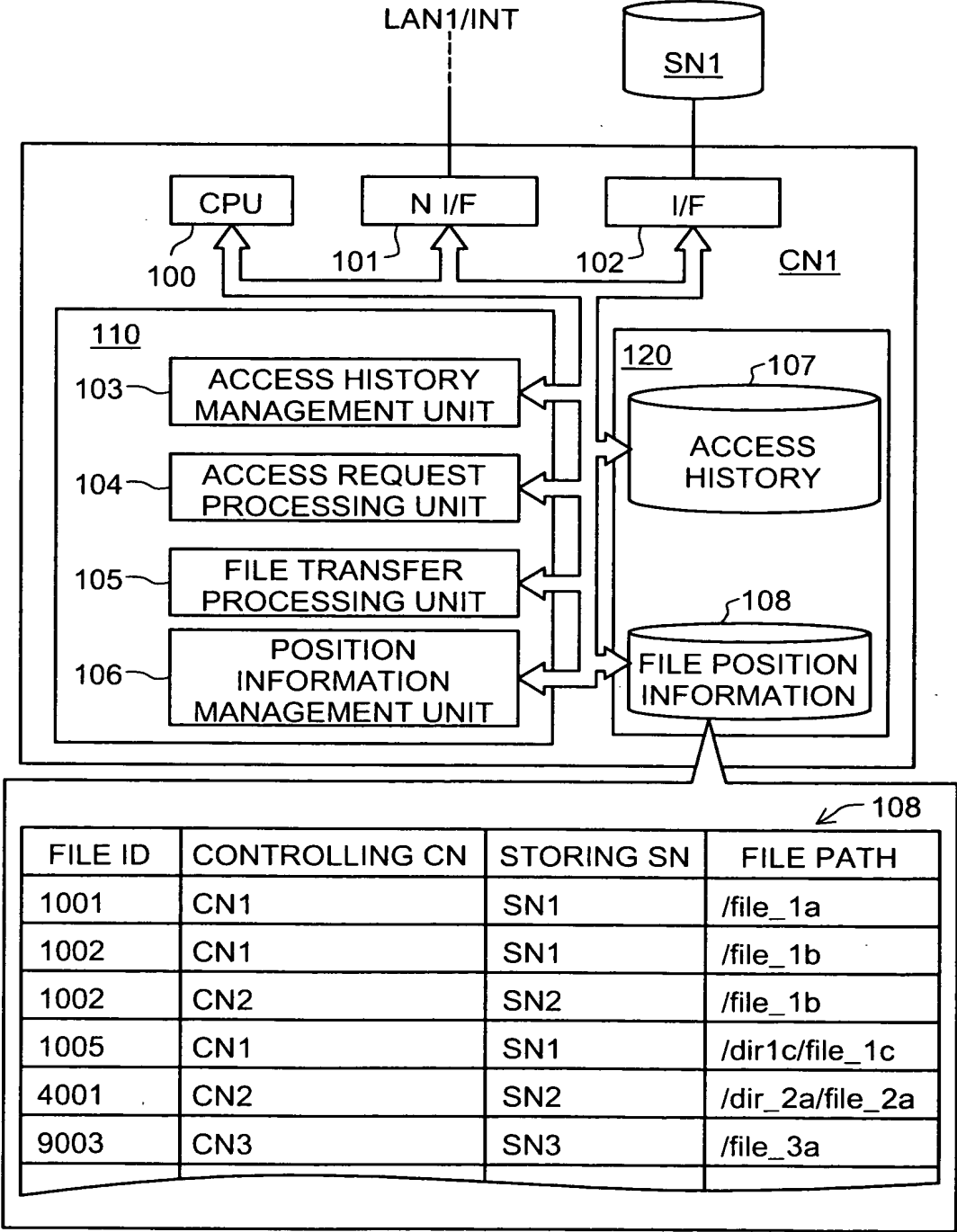


Fig.3

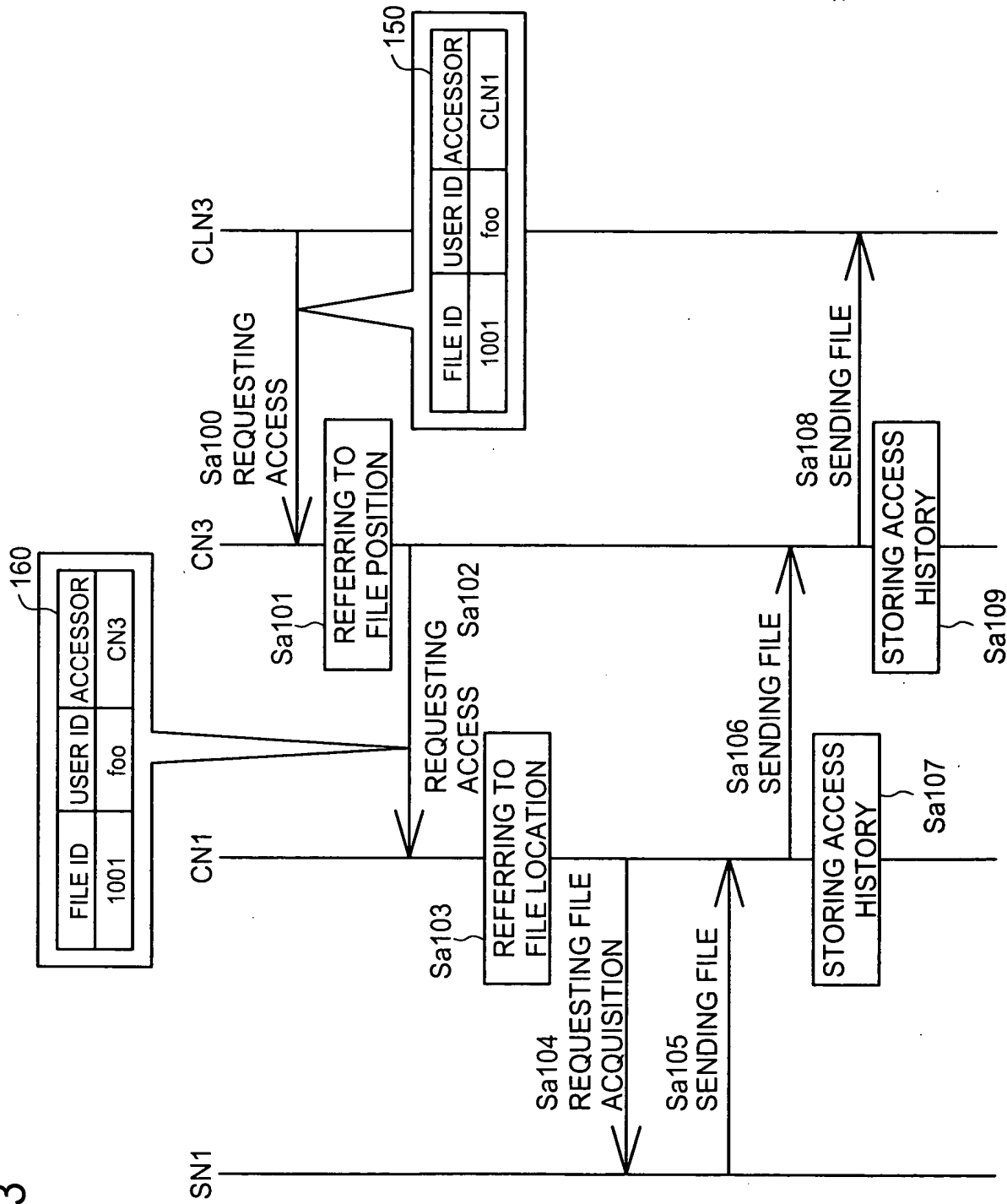


Fig.4

107

ID	REQUEST DATE	REQUEST TIME	FILE ID	USER ID	ACCESSOR
1	2003/07/09	15:57:10	1001	foo	CLN1
2	2003/07/10	16:10:11	1002	foo	CLN1
3	2003/07/11	17:32:20	1001	foo	CLN1
4	2003/07/11	19:53:34	1002	foo	CLN1
5	2003/07/11	21:43:10	1002	foo	CLN1
6	2003/07/11	20:20:03	1001	foo	CLN1
7	2003/07/12	08:45:54	1001	foo	CLN1
8	2003/07/13	09:50:23	1001	foo	CN3
9	2003/07/13	13:23:28	1001	foo	CN3
10	2003/07/14	09:35:23	1001	foo	CN3

Fig.5

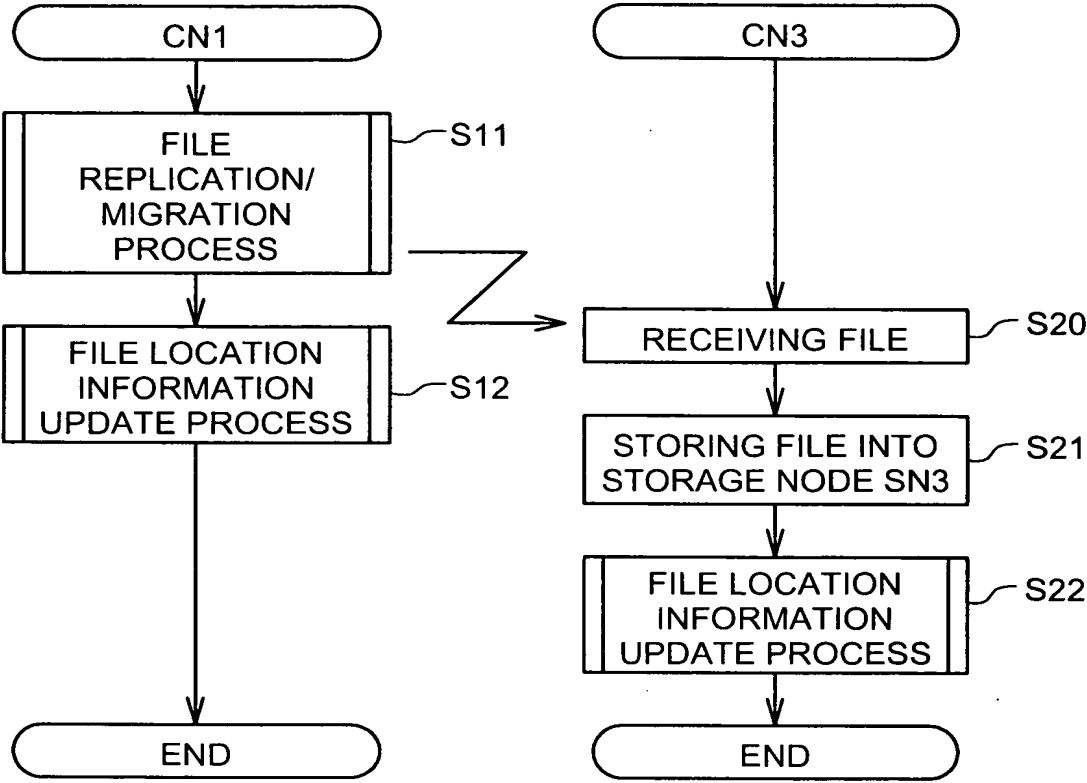


Fig.6

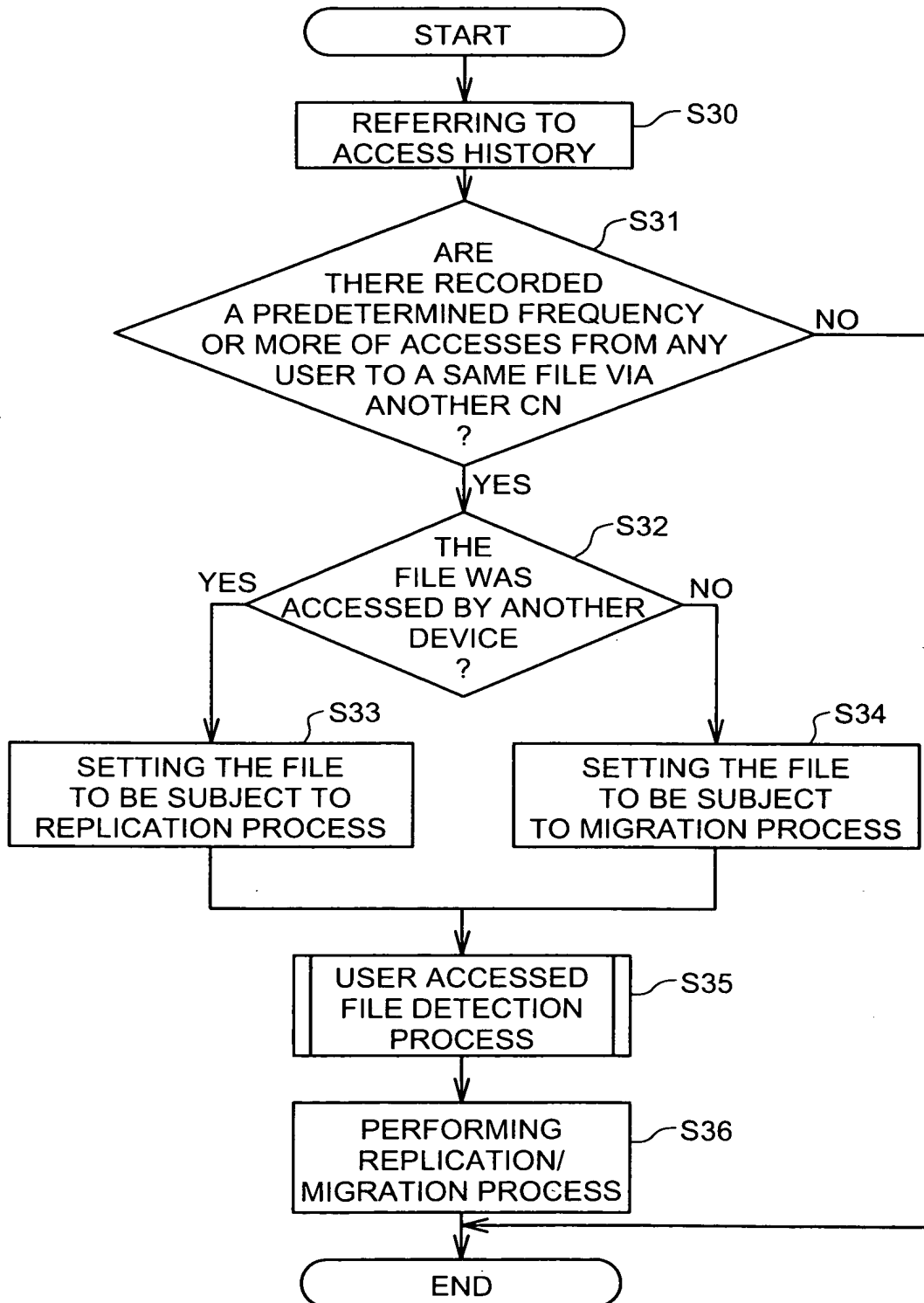


Fig.7

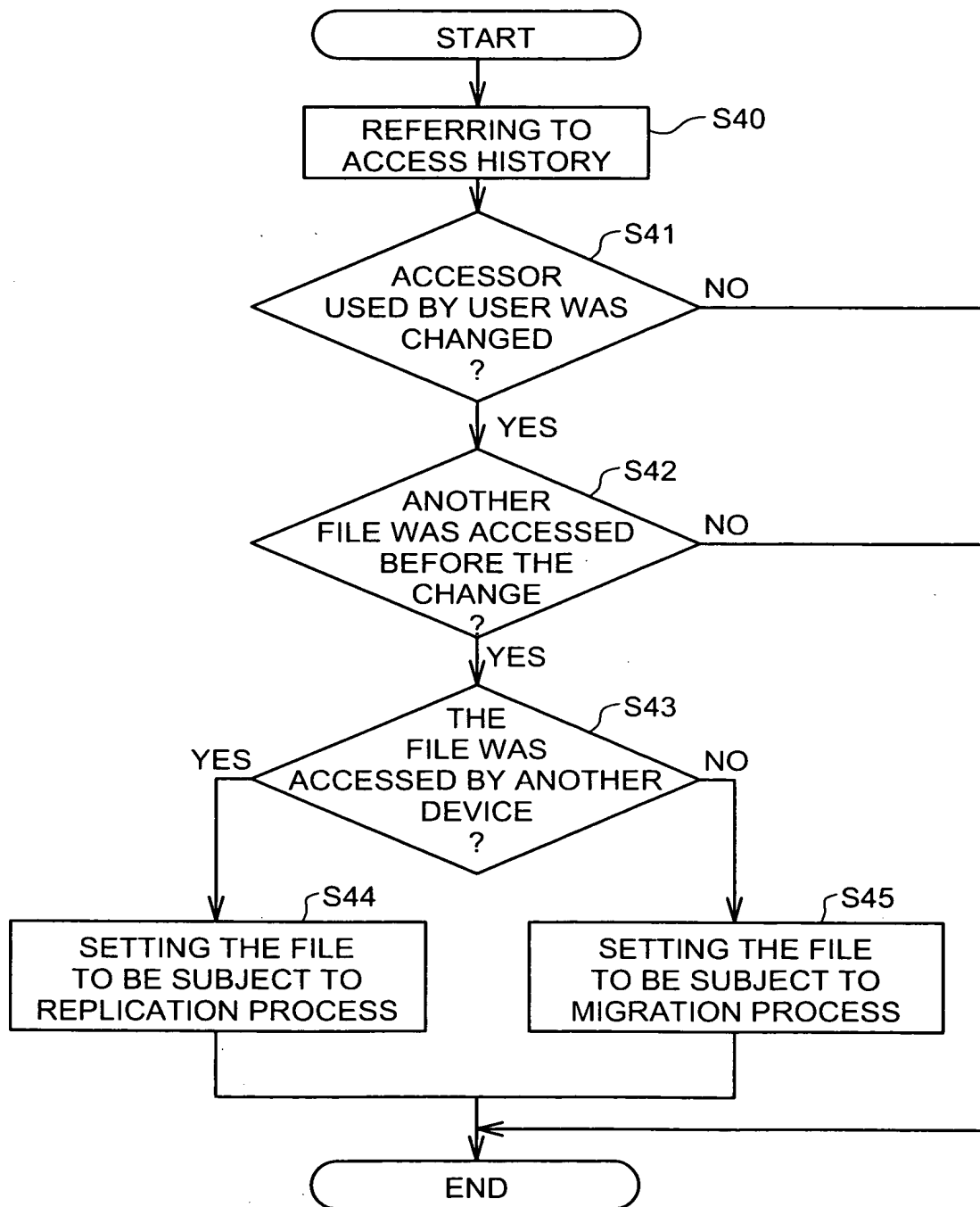


Fig.8A

MIGRATION

108

FILE ID	CONTROLLING CN	STORING SN	FILE PATH
1001	CN1	SN1	/file_1a
1002	CN1	SN1	/file_1b
1002	CN2	SN2	/file_1b



108a

FILE ID	CONTROLLING CN	STORING SN	FILE PATH
1001	CN3	SN3	/file_1a
1002	CN3	SN3	/file_1b
1002	CN2	SN2	/file_1b

Fig.8B

REPLICATION

108

FILE ID	CONTROLLING CN	STORING SN	FILE PATH
1001	CN1	SN1	/file_1a
1002	CN1	SN1	/file_1b
1002	CN2	SN2	/file_1b



108a

FILE ID	CONTROLLING CN	STORING SN	FILE PATH
1001	CN1	SN1	/file_1a
1001	CN3	SN3	/file_1a
1002	CN1	SN1	/file_1b
1002	CN2	SN2	/file_1b
1002	CN3	SN3	/file_1b

Fig.9

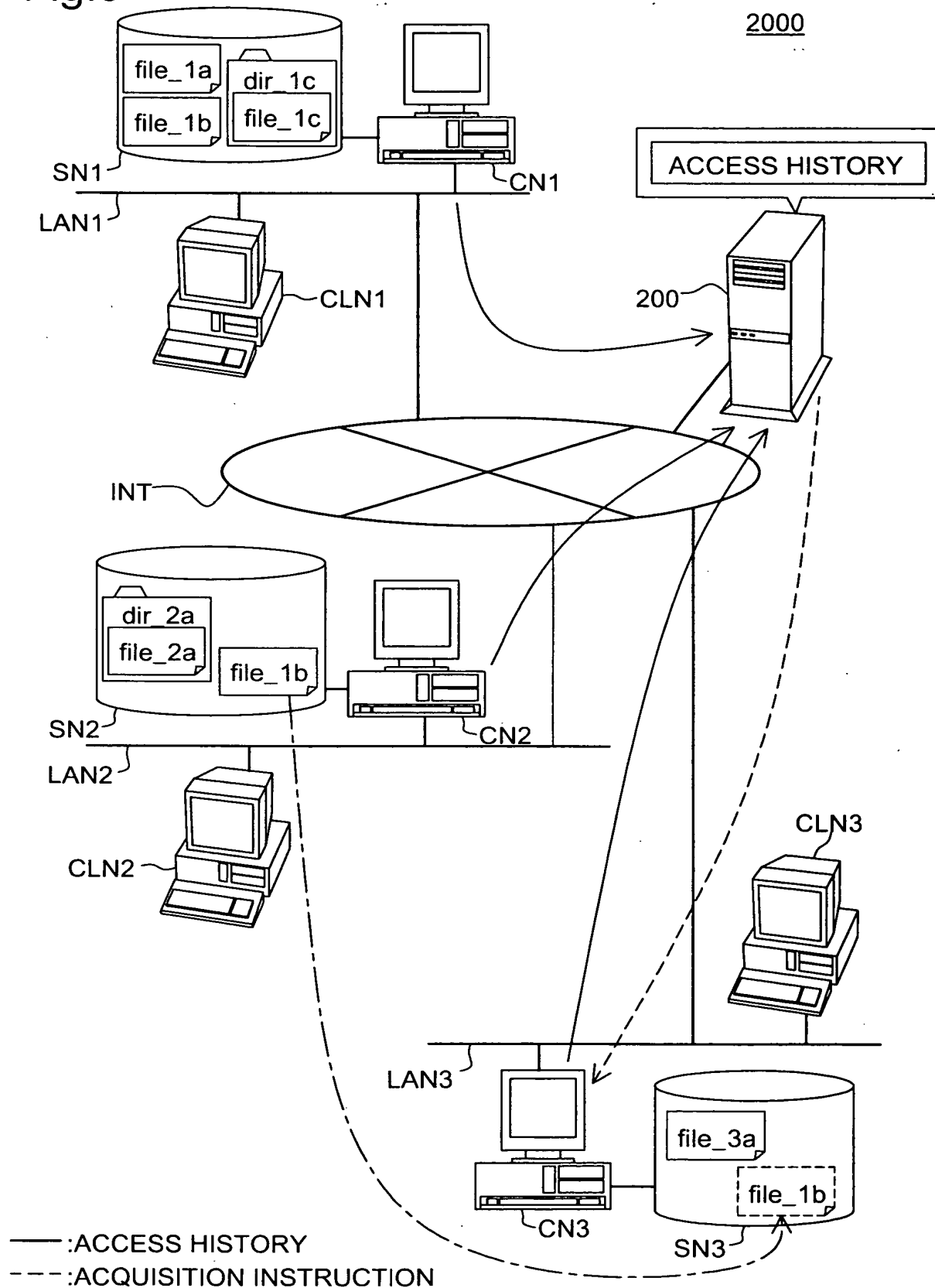


Fig.10A

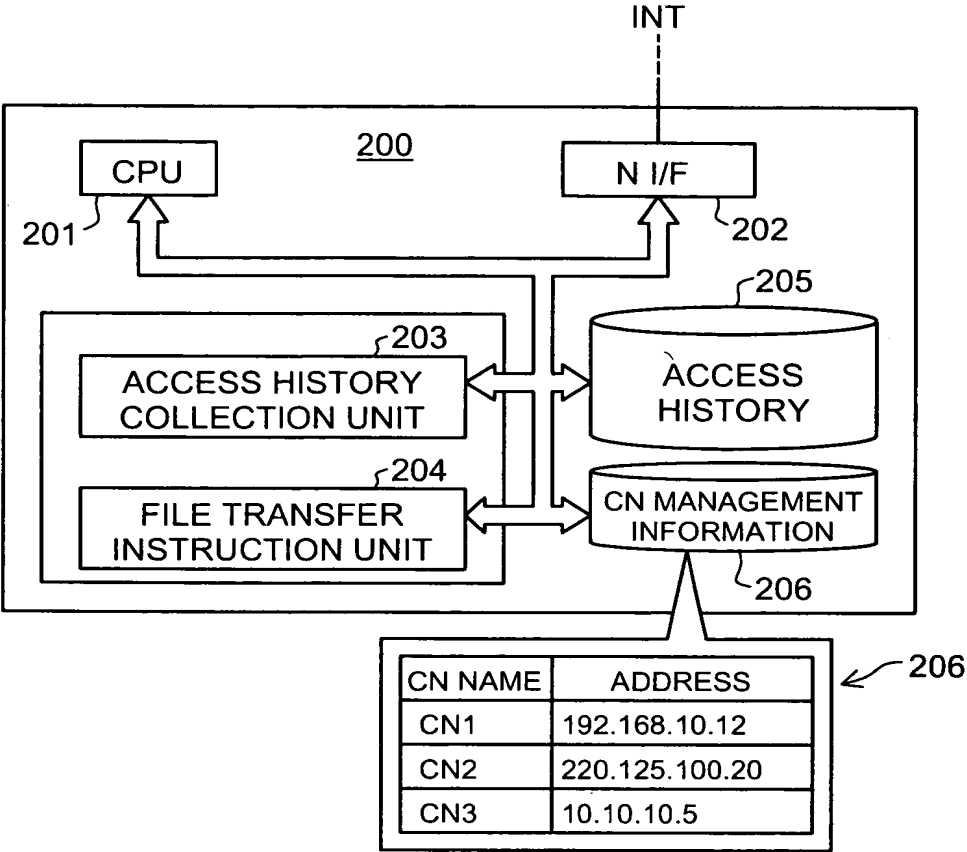


Fig.10B

300

REQUEST DATE	REQUEST TIME	FILE ID	FILE INTERMEDIARY CN	ACCESSOR
2003/05/05	12:15:30	4001	CN2	CLN1
2003/05/05	16:40:52	1001	CN1	CLN1
2003/05/05	20:36:11	1005	CN1	CN2

Fig.11

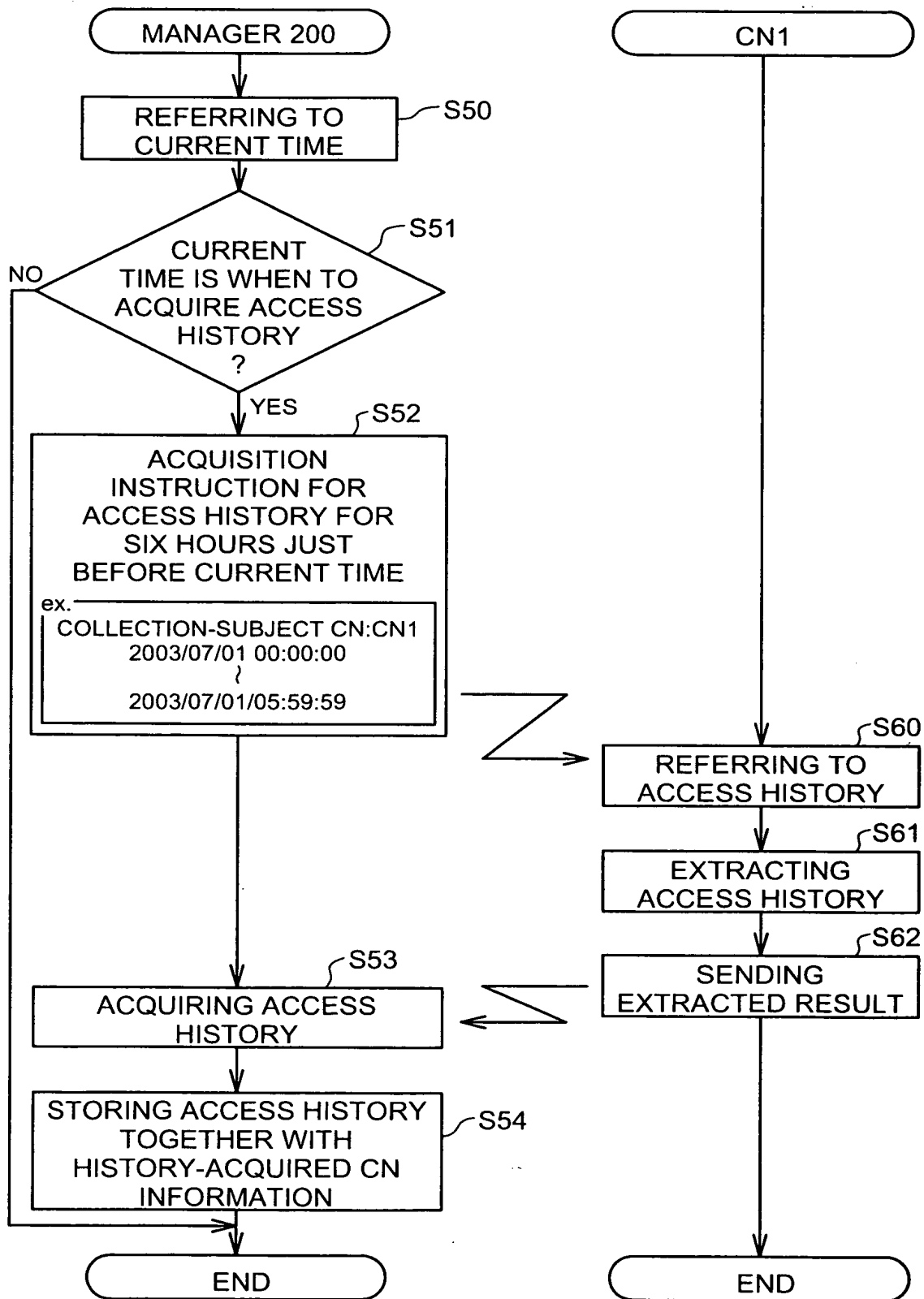


Fig.12

ID	REQUEST DATE	REQUEST TIME	FILE ID	FILE INTERMEDIARY CN	ACCESSOR	HISTORY-ACQUIRED CN
1	2003/07/09	15:57:10	1002	CN1	CLN1	CN1
2	2003/07/11	17:32:20	1001	CN1	CLN1	CN1
3	2003/07/11	17:32:20	1002	CN1	CLN1	CN1
4	2003/07/11	19:53:34	1001	CN1	CLN1	CN1
5	2003/07/11	21:43:10	1002	CN2	CLN3	CN3
6	2003/07/11	20:20:03	1002	CN2	CLN3	CN3
7	2003/07/12	08:45:54	1002	CN2	CLN3	CN3

Fig.13

